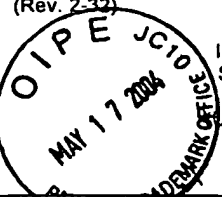
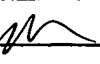
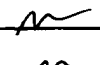
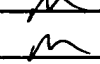

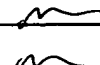
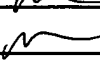
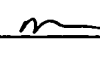
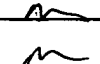
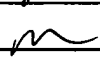
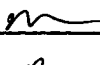
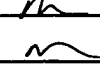
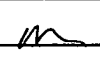
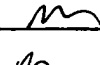
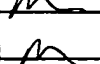
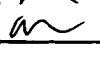

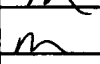
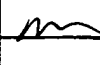
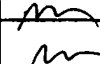
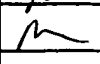
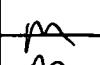
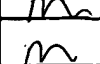





FORM PTO-1449 (Rev. 2-32) 	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 34302	SERIAL NO. 10/659,564
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT: SWANSON, GUY J.	
			FILING DATE: September 9, 2003	GROUP: 3671

U.S. PATENT DOCUMENTS

EXAM. INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		1	8	5	7	7	4	9	5/32	White			
		2	0	0	1	0	0	3	5/35	Tuft			
		2	0	5	8	5	3	9	10/36	Walty et al.			
		2	6	2	3	4	8	3	12/52	Stevenson			
		2	7	7	9	2	6	3	1/57	Franz et al.			
		2	9	2	0	5	8	7	1/60	Shriver			
		2	9	6	8	2	5	5	01/17/61	Loeber			
		3	3	6	2	3	6	1	1/68	Morrison, Jr			
		3	5	1	2	4	8	9	5/70	Coldren et al.			
		3	5	5	6	0	2	7	01/19/71	Ammann			
		3	7	3	6	8	9	0	6/73	Barnes			
		3	8	5	4	4	2	9	12/17/74	Blair			
		3	9	0	8	5	6	7	9/75	Brannan			
		3	9	7	8	6	8	1	09/07/76	Kjelgaard et al.			
		4	0	4	4	6	9	7	8/77	Swanson			
		4	0	6	9	0	2	9	01/17/78	Hudson			
		4	1	1	6	1	3	9	09/26/78	Sauer			
		4	1	4	1	6	7	6	02/27/79	Jannen et al.			
		4	1	7	5	3	9	4	11/79	Wiesboeck			
		4	1	9	6	6	7	7	04/08/80	Siebert			
		4	3	3	3	5	3	4	6/82	Swanson et al.			
		4	3	4	1	1	6	8	07/27/82	Seibert			
		4	3	6	4	4	0	9	12/21/82	Jones			
		4	3	7	7	9	7	9	3/83	Peterson et al.			
		4	4	2	2	3	9	2	12/83	Dreyer et al.			
		4	4	3	2	6	5	1	02/21/84	McLeod			
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		4	4	5	2	3	1	5	6/84	Swanson			
		4	4	5	8	6	0	9	7/84	ToRe			
		4	5	2	0	7	4	2	6/85	Anderson			
		4	5	6	5	1	4	1	1/86	Kopecky			

[illegible]

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Pub No. 2003/0015328 entitled DISC OPENER ASSEMBLY FOR A SEED PLANTER, Pub. Date 01/23/03, Prairie et al.
		Pub No. 2002/0166486 entitled DISC OPENER ASSEMBLY FOR A SEED PLANTER, Pub. Date 11/14/02, Prairie et al.
		Pub No. 2003/0015328 entitled DISC OPENER ASSEMBLY FOR A SEED PLANTER, Pub. Date 01/23/03, Prairie et al.
		Pub No. 2002/0144637 entitled MATERIAL DECELERATOR FOR AN AIR DELIVERY SYSTEM, Pub. Date 10/10/02, Wendling et al.
	mm	Copy of excerpts from John Deere Air Seeding Equipment catalog (pages 12-13, print date unknown) showing prior art 1890 No-Till Air Drill.
	mm	Successful Farming, Jan. 2003, Rich Fee, Crops and Soils Editor, <i>New Nh₃ Manifolds Do Better</i> , pp. 46 and 48.
	mm	P.M. Boyd et al., <i>Field corn tests to examine anhydrous ammonia manifold variability</i> , paper presented at 2002 ASAE Annual International Meeting, July 28-31, 2002.
	mm	P.M. Boyd et al., <i>Field evaluation of anhydrous ammonia manifold performance and variability</i> , paper presented at 2002 ASAE Annual International Meeting, July 28-31, 2002.
	mm	H.I. Fraser, <i>The Trangie Rotaflow - Anhydrous ammonia distribution technology</i> , product information from H.I. Fraser Pty Ltd web site, printed from http://www.hifraser.com/Images&files/pdf/files/rotaflow.PDF in February 2003.
	mm	H.I. Fraser, <i>The Trangie Rotaflow - Anhydrous ammonia distribution technology</i> , product information from H.I. Fraser Pty Ltd web site, printed from http://www.hifraser.com/Images&files/pdf/files/nh3specs.PDF in February 2003.
	mm	History of the U.S. Fertilizer Industry, Lewis B. Nelson, 1990, Tennessee Valley Authority, pp. 324-333 and 361-365.
		Indiana Agricultural Ammonia Law, Purdue University, West Lafayette, Indiana, (Published at least as early as Sept. 4, 2001)
	mm	Continental NH ₃ Products, Installation Instructions, Vertical Dam Manifold, (Published at least as early as Sept. 4, 2001).
	mm	Raven Industries, Accu-Flow Attachment, Form FCD5M497, (Published at least as early as Sept. 4, 2001).
	mm	Dickey-John Corp., PCS Precision Control System, Form 110701-0231, (Published at least as early as Sept. 4, 2001).
	mm	Squibb-Taylor, Anhydros Ammonia (NH ₃) Equipment, Catalog AA-98, (Published at least as early as Sept. 4, 2001).
	mm	Micro-Trak Systems, Inc., NH ₃ Kit, (Published at least as early as Sept. 4, 2001).
	mm	Spraying Systems Co., Agricultural Spray Products Catalog, 45A, (Published at least as early as Sept. 4, 2001).
	mm	Bumper Times, Jan./Feb. vol.16, Guy J. Swanson, Pub., p. 6, (Published at least as early as Sept. 4, 2001).
	mm	Successful Farming, Sept. 1998, Rich Fee, Crops and Soils Editor, <i>Taking Nitrogen Calibration to the Field</i> , pp. 44-46 and 48.
	mm	Successful Farming, Sept. 1997, Rich Fee, Crops and Soils Editor, <i>Outdated Manifolds Sabotage Nitrogen Application</i> , pp. 50-55.
	mm	Successful Farming, Nov. 1997, Rich Fee, Crops and Soils Editor, <i>Here's How to Calibrate NH₃ Applicators</i> , pp. 44 and 46.

	<i>mm</i>	Successful Farming, Oct. 1998, Rich Fee, Crops and Soils Editor, <i>New NH3 Equipment Promises Greater Accuracy</i> , pp. 38 and 40.
	<i>mm</i>	Westco, Westco Guidelines, Applying Nh3 at Seeding. Oct. 1, 1998, Thom Weir and John Harapiak.
	<i>mm</i>	Spraying Systems Co., Spray Controls Solutions Catalog 802, p. 25, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	RAVEN Industries, SCS440, SPRAYER CONTROL SYSTEMS, Sales flier, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	Case/Concord, Product Line Air Till Drill Systems, Form AE-170086, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	Thurston Manufacturing Co., BLU-JET GDI 200, Form 5497/15m/2-96/ABP, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	Dempster Industries Inc. Owners Manual Model B-4, Form 3018, (Published at least as early as Sept. 4, 2001).
		John Blue, THE PUMP COMPANY, Catalog 100cat994, (Published at least as early as Sept. 4, 2001).
		Horvick Manufacturing, 1998 Parts and Sales Catalog, pp. 181 to 200, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	Continental NH3 Products Co. Inc., EQ-2000 EQUALIZER, FULL RANGE HIGH CAPACITY HEAT EXCHANGER WITH METER MATIC, (Published at least as early as Sept. 4, 2001).
	<i>mm</i>	EXACTRIX GLOBAL SYSTEMS LLC, Installation, Service, and Parts Guide, Form 998A, October 6, 1998.

EXAMINER: Initial if citation considered, whether not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

mm 1/17/00